

SERVICE BULLETIN

AMATEUR RADIO

SUBJECT

TS-430S LOW/INTERMITTENT RX

DATE

10-18-85

Low or intermittent receive on the TS-430S may be caused by a poor contact on one or more of the LPF relays. In most cases the following procedure will correct this problem without having to replace relays. The procedure has two steps, first initial cleaning of the contacts by passing a relatively high current thru them (about 500 mA), and then installing a contact maintenance circuit that will apply a relatively low current (about 8 mA) whenever a new band is selected.

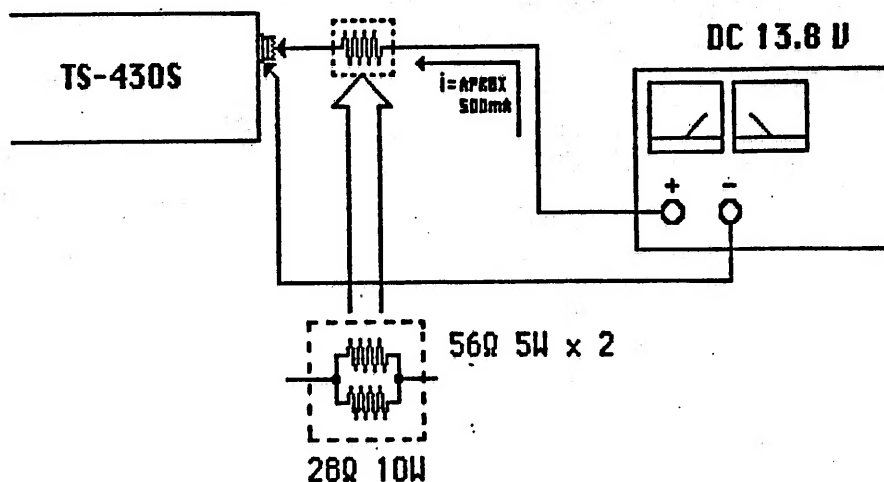
PROCEDURE:

I. Initial contact cleaning procedure.

Parts List:

56Ω 5W Ceramic Resistor (R92-0622-05).....2 ea.

1. Press and hold the "UP" bandswitch of the TS-430S (ensure the 1 Mhz switch is ON).
2. Apply 13.8 vdc to the antenna terminal thru a 28 Ω, 10 W resistor for approximately 1 minute. This will cycle thru all the relays and burn any oxidation/contamination from the contacts.

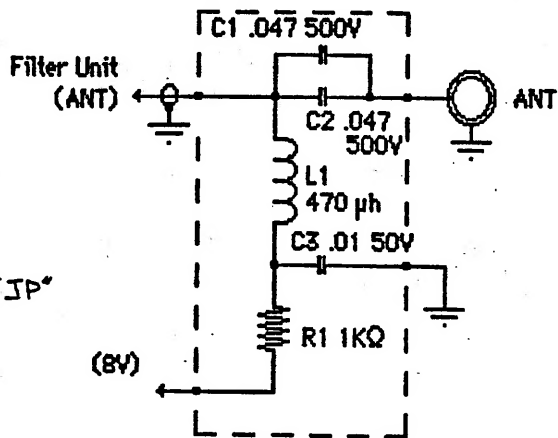
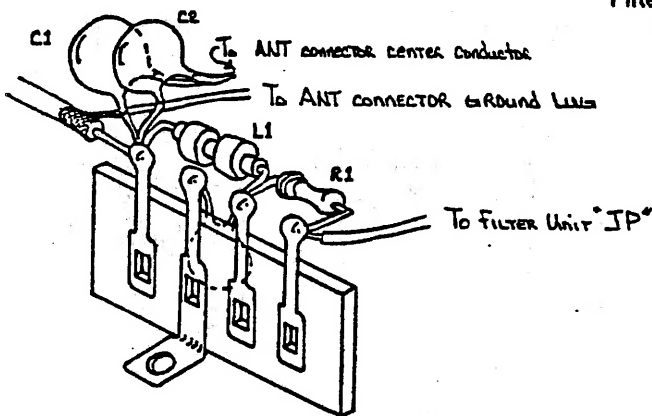


II. Contact maintenance circuit installation.

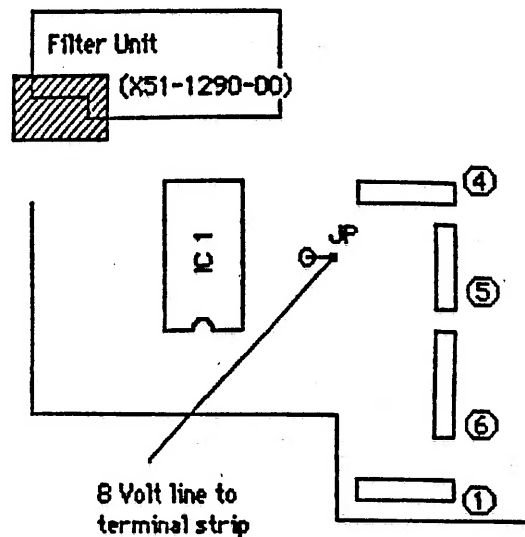
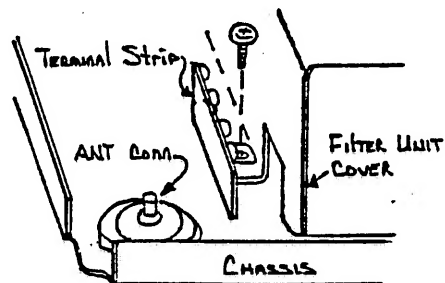
Parts List:

Terminal Strip (E22-0371-05).....1 ea.
C1,C2 (CK45D2H473M) .047 μ F 500V.....2 ea.
C3 (C91-0117-05) .01 μ F 50V.....1 ea.
L1 (L33-0259-05) 470 μ h.....1 ea.
R1 (RD14CB2E102J) 1 K Ω 1/4 Watt... ..1 ea.
Small length of hookup wire.....6 inches

1. Disconnect the center lead of the coaxial cable from the antenna terminal.
2. Install the contact maintenance circuit as shown in the accompanying diagrams. Attach the terminal lug strip with one of the filter unit cover screws.
3. Solder the 8v lead to the "JP" terminal of the Filter Unit.



Contact Maintenance Circuit



This procedure should may be performed only to those units received for this specific repair symptom. Time required for this procedure is 1 hour or less. ©TKC102185 CLM

